

APPLIED STATISTICS

A Journal of the
Royal Statistical Society

EDITOR

LEONARD H. C. TIPPETT

ASSISTANT EDITOR

DONALD G. BEECH



VOLUME THREE

Oliver and Boyd Ltd.
London: 39A Welbeck Street, W.1
Edinburgh: Tweeddale Court

1954

CONTENTS

No. 1. MARCH

	Page
Production and Administration Cost in Relation to Size of Firm (with Appendix: A Problem of Least Squares Method, <i>Robert Bechhofer</i>) <i>Seymour Melman</i>	1
An Analysis of the Results of a Visual Test of Textile Yarn <i>Anthony G. Baker, Kenneth W. Hillier and Robert H. Woodward</i>	12
Who Gets the Medicine? .. <i>Percy G. Gray and Ann Cartwright</i>	19
Too Good to be True? <i>Alan Stuart</i>	29
Some Uses of the Nomogram in Statistics .. <i>Simon Broadbent</i>	33
A Neglected Point in the Construction of Price Index Numbers <i>Armand Peter Ruderman</i>	44
Letter to the Editor: An Index of Operating Costs for Shipping ..	48
Notes and Comments	50
Questions and Answers	52
Industrial Applications Section of the Royal Statistical Society: List and Reports of Meetings	55
Study Section of the Royal Statistical Society: Reports of Meetings ..	58
Book Reviews:	
<i>Methods of Statistical Analysis</i> , C. H. Goulden	59
<i>Statistical Design and Analysis of Experiments for Development Research</i> , Donald Statler Villars	59
<i>The Design and Analysis of Experiment</i> , M. H. Quenouille	60
<i>Associated Measurements</i> , M. H. Quenouille	61
<i>The Tools of Social Science</i> , John Madge	62
<i>50-100 Binomial Tables</i> , Harry G. Romig	63
<i>International Trade Statistics</i> , edited by R. G. D. Allen and J. Edward Ely	63

No. 2. JUNE

Quality Control on the Setting of Voltage Regulators <i>David J. Desmond</i>	65
The Measurement of Elasticities of Demand .. <i>Conrad E. V. Leser</i>	74
What is Econometrics? <i>Eric Shankleman</i>	85
Experiments with a Random Selector as an Aid to the Teaching of Statistics <i>Elsie A. G. Knowles</i>	90
The Measurement of Daily Variations in Absence <i>F. D. K. Liddell</i>	104

CONTENTS (<i>continued</i>)	Page
Investigation of Errors of Observation <i>Rupert Thomas Leslie</i>	112
The Construction of Nomograms for Use in Statistics. Part I: True and Empirical Nomograms <i>Philip Lyle</i>	116
Letter to the Editor: A Neglected Point in the Construction of Price Index Numbers	126
Notes and Comments	128
Industrial Applications Section of the Royal Statistical Society: List and Reports of Meetings	130
Study Section of the Royal Statistical Society: Reports of Meetings ..	133
Book Reviews:	
<i>Tables for Aptitude Testers</i> , A. G. Arbous	134
<i>Social Accounts of Local Authorities</i> , J. E. G. Utting	134
<i>Exercises in Theoretical Statistics</i> , M. G. Kendall	135

No. 3. NOVEMBER

Queueing for Medical Care <i>Norman T. J. Bailey</i>	137
Accuracy in Statistics <i>Cyril Davenport Hughes</i>	146
The Determination of Single-Sample Schemes for Percentage Defectives <i>Gareth Horsnell</i>	150
The Use of Estimates of Absence-Proneness for Guiding Executive Action <i>Adrian Garth Arbous and Herbert Simon Sichel</i>	159
Production Functions for the British Industrial Economy <i>Conrad E. V. Leser</i>	174
The Construction of Nomograms for Use in Statistics. Part II: The Graphical Analysis of the Results of a Factorial Experiment <i>Philip Lyle</i>	184
Letters to the Editor:	
The Teaching of Statistics in Schools	196
The Construction of Price Index Numbers	197
Notes and Comments	199
Industrial Applications Section of the Royal Statistical Society: List and Reports of Meetings	200
Study Section of the Royal Statistical Society: List and Reports of Meetings	202
Book Reviews:	
<i>Statistical Methods in Electrical Engineering</i> , D. A. Bell	204
<i>Le Contrôle Statistique des Fabrications</i> , R. Cavé	205
<i>Statistical Inference</i> , H. M. Walker and J. Lev	206
<i>Mathematics in Action</i> , O. G. Sutton	207
<i>Sampling Theory of Surveys with Applications</i> , Pandurang V. Sukhatme	208